

WHAT IS CLAIMED IS:

1. A laser emitting module comprising:
 - a resonator including a solid-state laser medium, a
5 non-linear optical element for converting a wavelength of light
emitted from the solid-state laser medium, and a pair of resonance
reflectors disposed in such a way that the solid-state laser
medium and the non-linear optical element are positioned in
between the resonance reflectors for reciprocating the light
10 therebetween;
 - a laser diode for emitting light for exciting the
solid-state laser medium, and
 - a window cap having a window section for outputting a light
emitted from the resonator therethrough and accommodating the
15 resonator and the laser diode.
2. The laser emitting module according to Claim 1, further
comprising:
 - a base member that holds the resonator, and
20 a heat sink that is disposed in contact with the base member
and the laser diode.
3. The laser emitting module according to Claim 1, wherein:
 - an airtight member, which allows a light to pass while
25 keeping air tightness, is attached to the window section, and
inside of the window cap is being kept airtight.
4. The laser emitting module according to Claim 1, further
comprising:
 - 30 an optical filter for selecting a wavelength of light
emitted from the resonator.

5. The laser emitting module according to Claim 4, wherein:
the optical filter is attached to the window section, and
inside of the window cap is being kept airtight
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6. The laser emitting module according to Claim 1, further
comprising:
a split reflector for reflecting a part of a light emitted
from the resonator, and
- 10 a received photo detector for detecting a light reflected
by the split reflector.
7. The laser emitting module according to Claim 6, further
comprising:
- 15 an optical filter for selecting a wavelength of light
emitted from the resonator,
wherein the surface of the optical filter is used as the
split reflector.
- 20 8. The laser emitting module according to Claim 6, wherein:
the received photo detector comprises
a photodiode for converting a received light into
an electrical signal in accordance with its intensity, and
a second optical filter that is disposed in front
- 25 of a receiving surface of the photodiode for selecting a
wavelength of light to be received by the photodiode.
9. The laser emitting module according to Claim 6, wherein:
the received photo detector comprises a light selection
- 30 layer that allows a light having a specific wavelength to pass
through, the light selection layer being formed on the photodiode

which converts the received light into the electric signal in accordance with its intensity.

10. The laser emitting module according to Claim 6, wherein:
5 the received photo detector to be disposed in backward direction of the laser diode in relation to a main direction of progression of the light from the resonator.

11. The laser emitting module according to Claim 6, further
10 comprising:
a reflection plane for reflecting a light reflected from the split reflector section toward the received photo detector.

12. The laser emitting module according to Claim 11, wherein:
15 a plane of the window cap having the window section is formed to be an oblique open window plane which is non-perpendicular relative to a main direction of progression of the light emitted from the resonator,

a part of a side plane of the window cap forms an oblique
20 side plane which is non-parallel to the main direction of progression of the light emitted from the resonator,

the split reflector section is formed on the oblique open window section, and

the reflection plane is formed on the oblique side plane.
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13. A laser emitting module comprising:
a resonator including a solid-state laser medium, a non-linear optical element for converting a wavelength of light emitted from the solid-state laser medium, and a pair of resonance
30 reflectors sandwiching the solid-state laser medium and the non-linear optical element for reciprocating the light

therebetween,

a laser diode for emitting a light for exciting the solid-state laser medium;

a base member for supporting the resonator; and

5 a heat sink that is disposed in contact with the laser diode and the base member.

14. The laser emitting module according to Claim 13, wherein:
the base member and the heat sink may be formed as a single
10 unit.

15. The laser emitting module according to Claim 13, wherein:
the resonator and the base member are jointed with a silver
paste.

15 16. The laser emitting module according to Claim 13, wherein:
the base member and the heat sink are jointed with a silver
paste.

20 17. The laser emitting module according to Claim 13, wherein:
the heat sink is exposed outside the surface of the laser
emitting module.

18. A window cap for accommodating a laser oscillation device
25 for emitting a laser beam, wherein:

a window section is formed for outputting a laser beam,

a plane, in which the window section is formed, forms an obliquely open window section which is non-perpendicular with respect to a main direction of progression of the laser beam, and

30 a part of a side plane of the window cap forms an oblique side plane which is non-parallel with respect to the main

direction of progression of the laser beam.

19. The window cap of a laser emitting module according to claim 18, wherein:

5 a reflecting plane is formed on an inner surface of the oblique side plane for reflecting light.

20. A laser pointer comprising:

10 a resonator including a solid-state laser medium, a non-linear optical element for converting a wavelength of light emitted from the solid-state laser medium, and a pair of resonance reflectors sandwiching the solid-state laser medium and the non-linear optical element for reciprocating the light therebetween;

15 a laser diode for emitting light for exciting the solid-state laser medium;

a window cap having a window section through which the light emitted from the resonator is outputted, for accommodating the resonator and the laser diode therein;

20 an optical filter for selecting a wavelength of an output light emitted from the resonator; and

a pair of convex and concave lenses for expanding and collimating light emitted from the window section into parallel rays of light.

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21. The laser pointer according to Claim 20, further comprising:

a driver circuit connected to the laser diode for controlling light emission of the laser diode.

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22. The laser pointer according to Claim 21, wherein:

the driver circuit comprises an automatic current control circuit.

23. The laser pointer according to Claim 21, further
5 comprising:

a split reflector for reflecting a part of a light emitted from the resonator, and

a received photo detector for detecting a light reflected from the split reflector,

10 wherein the split reflector and received photo detector are accommodated within the window cap.

24. The laser pointer according to Claim 23, further comprising:

15 a driver circuit connected to the laser diode for controlling light emission of the laser diode in accordance with a light intensity detected by the received photo detector.

25. A laser pointer comprising:

20 a resonator including a solid-state laser medium, a non-linear optical element for converting a wavelength of light emitted from the solid-state laser medium, and a pair of resonance reflectors sandwiching the solid-state laser medium and the non-linear optical element for reciprocating the light
25 therebetween;

a laser diode for emitting light for exciting the solid-state laser medium;

a base member for supporting the resonator;

a heat sink disposed in contact with the laser diode and
30 the base member;

an optical filter for selecting a wavelength of light

emitted from the resonator; and

a pair of convex and concave lenses for expanding and collimating light emitted through the optical filter into parallel rays of light.

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26. A light emitting comprising:

a light emitting element;

an optical wavelength conversion element for converting a wavelength of light emitted from the light emitting element;

10 a base member for supporting the optical wavelength conversion element; and

a heat sink disposed in contact with the light emitting element and the base member.